



PATENT
01393-P0074A GSW/TMO

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	Pierre Talbot et al.
Serial No. 10/667,638	Filing Date: September 22, 2003
Title of Application:	Coconut Mesocarp-Based Biofilter Material And Its Use In A Wastewater Treatment Plant
Confirmation No. 1107	Art Unit: 1723
Examiner	

Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

2nd Supplemental Information Disclosure Statement by Applicant

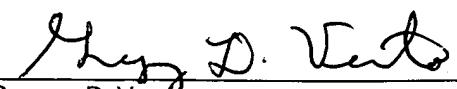
Dear Sir:

As a means of complying with the duty of disclosure set forth in 37 CFR §1.56, Applicant lists the following references (copies of the listed patents and papers enclosed).

U.S. Patent Documents				
Exam. Initials	Class/ Subclass.	Document No.	Date	Name
	210/242.4	4,861,475	8/1989	Peterson
	210/150	5,049,265	9/1991	Boyd et al.
	427/3	5,106,648	4/1992	Williams et al.
	502/404	5,206,206	5/1993	Buelna et al.
	210/611	5,264,129	11/1993	Simpson et al.

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March 22, 2004



Gregory D. Venuto

Other Documents	
Exam. Initials	Description (Author, Title, Date, Pages, etc)
	Ismail. M.R. et al., Effects of Water Availability on Growth, Water Relations, Physiological Processes and Yield of Tomatoes Grown in Coconut Coir (Cd): Peat Mix Peat in Horticulture/Posters, Botanical Physical and Chemical Properties of Peat Products pp. 176-180.
	Radjagukguk, B. et al. A Comparative Study of Peats and Other Media For Containerized Fore Tree Seedlings
	Bandyopadhyay, Swati, P.M. et al. Transient Behavior Of A Coconut Shell Pyrolyzer: A Mathematical Analysis, 1996 Ind. Eng. Chem. Res 35, Art. 1711, pp. 3347-3355.
	Chweya, J.A. et al. Preliminary Studies on Some Local Materials For Propagation Media, 1978, E. African Agric. For J. 43(4) Art. 1799-pp. 327-333.
	Pillai, C.K.S., et al. A Mechanical Study of the Deterioration of Coconut Leaf Thatch Under Natural and Accelerated Environmental Conditions, 1982, Journal of Materials Science 17, Art. 2124, pp. 2861-2868.
	Satyanarayana, K.G. et al. Structure Property Studies of Fibers From Various Parts of the Coconut Tree, 1982, Journal of Materials Science, Art. 2123, pp. 2453-2462.
	Remison, S.U. et al. Effect of Salinity on nutrient content of the leafs of coconut seedlings; 1988, Plant and Soil 109, C. Kluwer Academic Publishers, pp 135-138.
	Pryce, Suki, Alternatives to Peat, 1991, Professional Horticulture, Vol. 5 pp. 101-106
	Jeganathan, M. Nut Water Analyses As A Diagnostic Tool in Coconut Nutrition Studies, Commun. Soil Sci. Plant Anal., 23 (17-20), pp. 2667-2686.
	Ismail, M.R. et al., Effects of Water Availability On Growth, Water Relations, Physiological Processes And Yield Of Tomatoes Grown in Coconut Coir (CD): Peat Mix, Peat in Horticulture/Posters, Botanical Physical and Chemical Properties of Peat Products, pp. 176-180.
	Handreck, Kevin A., Properties of Coir Dust, And Its Use In the Formulation of Soilless Potting Media, 1993, Commun. Soil Sci. Plant Anal., 24 (3&4) pp. 349-363.
	Meerow, Alan, W. The Potential of Coir (Coconut Mesocarp Pith) as a Peat Substitute in Container Media, 1993, Foliage Digest, Vol. XIV No. 12.

Other Documents	
Exam. Initials	Description (Author, Title, Date, Pages, etc)
	Muniswaran, P.K. Ananda et al., Production Of Cellulases From Coconut Coir Pith In Solid State Fermentation, 1993, J. Chem. Tech. Biotechnol. 60, pp. 147-151.
	Meerow, Alan, W. Growth of Two Subtropical Ornamentals Using Coir (Coconut Mesocarp Pith) as a Peat Substitute, 1994, HortScience, (29(12) pp. 1484-1486.
	Coconut By-Product Used As Peat Substitute, September 1997, Biocycle World
	Namasivayam, C. et al. Coirpith, An Agricultural Waste By-Product, For The Treatment Of Dyeing Wastewater, 1994, Elsevier Science Limited, pp. 79-81.
	Ingelmo, F. et al., Use of MSW Compost, Dried Sewage Sludge And Other Wastes As Partial Substitutes For Peat And Soil, 1998, Bioresource Technology. pp. 123-129.
	Konduru, S. et al., Source And Processing Affects Chemical And Physical Properties Of Coir Dust, 1996, HortScience, Vol. 31(4), Poster Session (Abstr. 535-546).
	Evans, Michael R. et al., Growth Of Bedding Plants In Sphagnum Peat And Coir Dust-Based Substrates, 1996, J. Environ. Hort 14(4) pp.187-190.
	Evans, Michael R. et al., Source Variation In Physical And Chemical Properties Of Coconut Coir Dust, 1996, HortScience 31(6), pp. 965-967.
	Kwon, Kisung et al., Fractionation And Characterization Of Proteins From Coconuts (Cocos Nucifera), 1996, J. Agric. Food Chem 44, pp. 1741-1745.
	Merrow, Alan W., Coir Dust, A Viable Alternative To Peat Moss, January 1997, Greenhouse Product News, pp. 17-21.
	Satya, Sai P.M. et al., Production of Activated Carbon From Coconut Shell Char In A Fluidized Bed Reactor, 1997, Ind. Eng. Chem, Res. pp. 3625-3630.

Other Documents	
Exam. Initials	Description (Author, Title, Date, Pages, etc)
	Stamps, Robert H. et al. Growth Of Dieffenbachia Maculata "Camille" In Growing Media Containing Sphagnum Peat Or Coconut Coir Dust, 1997, HortScience 32 (5), pp. 844-847.
	Susuki, S. et al. Compositional And Structural Characteristics Of Residual Biomass From Tropical Plantations, 1998, J. Wood Sci. 44, pp. 40-46.
	Mbah, Benjamin N., Changes In Moisture Retention Properties Of Five Waste Materials During Short-Term Mesophilic Composting, 1998, Compost Science & Utilization, Vol. 6, No. 4, pp. 67-73.
	Zizumbo-Villarrel, Daniel et al., Pattern Of Morphological Variation And Diversity Of Cocos Nucifera (Arecaceae) In Mexico, 1998, American Journal of Botany 85(6), pp. 855-865.
	Martin-Guillon, Ignacio et al., Comments On Production Of Activated Carbon From Coconut Shell Char In A Fluid Bed Reactor, 1999, Ind. Eng. Chem. Res. 38, pp. 1166-1168.
	Tam, Man S. et al, Preparation Of Activated Carbons From Macadamia Nut Shell And Coconut Shell By Air Activation, 1999, Ind. Eng. Chem. Res. pp. 4268-4276.
	Satya Sci, P.M. et al., Rebuttal To Comments On Production Of Activated Carbon From Coconut Shell Char In A Fluidized Bed Reactor, 1999, Ind. Eng. Chem, pp. 1169-1171.
	Eymar, Enrique et al., Continuous Measurement Of Substrate Electrical Conductivity In Container Grown Plants
	Konduru, S. et al., Coconut Husk And Processing Effects On Chemical And Physical Properties Of Coconut Coir Dust, 1999, HortScience 34 (1), pp. 88-90.
	Castillo, M. et al., Determination Of Non-Ionic Surfactants And Polar Degradation Products In Influent And Effluent Water Samples And Sludges Of Sewage Treatment Plants By A Generic Solid-Phase Extraction Protocol, 2000, Analyst 125, pp. 1733-1739.
	Viswanathan, R. et al., Pressure Density Relationships And Stress Relaxation Characteristics Of Coir Pith, 2001, J. Agric Engng. Res. 78 (2), pp. 217-225.
	Huang, Jenn-Wen et al. A Formulated Container Medium Suppressive To Rhizoctonia Damping Off Of Cabbage, 2000, Bot. Bull. Acad. Sin. 41, pp. 49-56.
	Batalon, Juanito T. et al., Optimization Of Coir Dust Compaction Using The Response Surface Methodology Approach, 2001, J. Agric. Engng. Res. 78 (2). Art. 2063, pp. 167-175.

Page 5
Serial No. 10/667,638
Information Disclosure Statement

Other Documents	
Exam. Initials	Description (Author, Title, Date, Pages, etc)
	de Kreij, C. et al., Growth of Pot Plants In Treated Coir Dust As Compared To Peat, 2001, Commun. Soil Sci. Plant Anal. 32 (13 & 14), pp. 2255-2265.

The listed patents pertain in a general way to the subject matter of the application, but are not necessarily considered to be analogous prior art.

Respectfully submitted,

March 22, 2004



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